

AUTHORS:

Rakitin, Yu. V., Krylov, A. V.,
Garayeva, K. G., Geyden, T. M.

SOV/2o-121-1-50/55

TITLE:

The Influence of Various Chemical Preparations Upon the
Germination of Stored Potato Tubers (Vliyaniye razlichnykh
khimicheskikh preparatov na prorastaniye klubney kartofelya
pri khranenii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 1,
pp. 175 - 178 (USSR)

ABSTRACT:

In the course of the last years chemical inhibitors of the germination of potato tubers have been sought (Refs 1-7). The methyl ether of the α -naphthylacetic acid turned out to be most favorable in this connection. In the case of edible potatoes it is already used to a great extent (Refs 8,9). In the present paper the results of a comparison of 27 preparations is given which belong to various classes of chemical compounds. All preparations were put at the authors' disposal by N.N.Mel'nikov, Yu.A.Baskakov and K.S.Bokarev. The inhibitors were used as powder, with loam as diluent (3 g per 1 kg tubers). Most of them were checked in 2-3 doses of

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SOW/20-121-1-5c/55

different amount. The sort "Lorkh" served as experimental potato. Table 1 shows that the compounds of similar structure differ to a great extent in their effect on the tuber. The most active inhibitors of the germination were : the isopropyl ether of the phenyl-carbamic acid and the above mentioned methyl ether. The first substance in a dosis of 25 mg/kg suppressed the germination completely, the second in a quantity of 50 - 100 mg/kg suppressed the process to a great extent. Both inhibitors reduced the physiological and the total losses in weight. The tubers treated with these inhibitors did not produce offshoot tubers. Both inhibitors were recommended for practical use (Refs 2,3,6): the first for the technical potato (Refs 6,7), the second for the edible potato (Refs 6,8,9). β -naphthoxy acetic acid practically did not inhibit germination. All other substances inhibited this process more or less. Several preparations were found which inhibit to a great extent the germination, lead, however, to the formation of offshoot tubers. The greatest formation of offshoot tubers was observed in the case of methyl and ethyl ether of the phenyl-carbamic acid. The

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comparison of the varieties with formation of offshoot tubers showed that their formation is to a certain degree reversely dependent on the length of the germs. There are 1 table and 9 references, 6 of which are Soviet.

ASSOCIATION: Institut fiziologii rasteniy im.K.A.Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni K.A.Timiryazev, AS USSR)
PRESENTED: April 1, 1958, by A.L.Kursanov, Member, Academy of Sciences, USSR
SUBMITTED: February 27, 1958

1. Potatoes--Physiology 2. Potatoes--Storage 3. Seeds--Viability
4. Chemical compounds--Physiological effects 5. Chemical compounds
--Test results

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SCV/20-21-2-48/53

AUTHORS: Krjlov, A. V., Rakitin, Yu. V., Tarakinova, G. A.

TITLE: The Transformation of Ethyl Alcohol in Fruits when Used as Ripening Stimulant (Prevrashcheniye etilovogo spirta v plodakh pri stimulyatsii im protsessa sozrevaniya)

PERIODICAL: Doklady Akademii nauk SSSR, 1956, Vol. 121, Nr 2, pp. 374-377 (USSR)

ABSTRACT: The ripening of fruits is accelerated by a number of chemical processes (Refs 1-10). There are, however, almost no data at all in publications on what happens with these stimulants after they entered the fruits. Such investigations were made possible only by the method of tracer atoms (Refs 11-13). In the present paper the results of investigations of the mentioned alcohol transformation in tomatoes are dealt with. The first stage of investigation was to determine the doses stimulating and impending ripening. The green-house tomato "Best of All" (Luchshij iz vsekh) served as experimental object. Green, fully grown fruits (of about 60 g) were selected. An aqueous alcohol solution of 25, 50, and 96% was injected into the fruits. The 50% concentration brought about ripening on

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the seventh day, the 25% concentration on the tenth day, and the 96% concentration on the fourteenth day. The control fruit ripened on the 12th day. Then the transformation of the alcohol in the fruits was investigated. C¹⁴ containing alcohol was tried in concentrations of 30,4, 50, and 92,8%. 0,5 ml per 100 g net weight were injected. The control was injected with distilled water. The specific radioactivity of all solutions was the same and amounted to 200 μ Cu per 1 ml solution. The experiment was carried out at a constant temperature of 25°. The test fruits were isolated from light after the experiment. Figure 1 shows the scheme of the experimental arrangement. Dry air free of CO₂ was blown through the vessels containing the tomatoes. Then the air was directed over various absorbents. From the data given in table 3 may be seen that the formation intensity of carboxylic acid increases due to the decomposition of the injected ethanal according to its concentration. The most active ethanol decomposition is not accompanied by a breathing intensification (Fig. 2), on the contrary, the ethanol transformation decreases abruptly with the increasing intensity of breathing (only with 50% ethanol its decomposition increases).

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ed). From table 1 may be seen that the separation of ethylene from the fruits also took place in dependence on the concentration of the ethanol injected. The biggest amount of ethylene was separated when using 50% ethanol. This concentration also caused the greatest stimulation. This proved again the rules found already earlier by the author mentioned in the second place of the title: the ripening rate of the fruits is directly dependent on the intensity of the formation of the ethylene (Refs 5, 7, 8). Analyses showed (Table 2) that in spite of a great difference between the ethanol doses injected the tissues of the fruits firmly bound this substance, and that this was done in amounts which show only small differences. Ethanol is subjected to thorough transformations in the fruits, on which occasion ethylene and carbon dioxide are formed. This takes place no matter whether it is present in stimulating or retarding doses. There are 3 figures, 2 tables, and 15 references, 12 of which are Soviet.

ASSOCIATION: Institut fiziologii rasteniy im. K. A. Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni K. A. Timiryazev, AS USSR)
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SOV/20-131-2448/53

The Transformation of Ethyl Alcohol in Fruits when Used as Ripening Stimulant

PRESENTED: April 8, 1959, by A. L. Kursanov, Member, Academy of Sciences,
USSR

SUBMITTED: February 25, 1958

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RAKITIN, Yu.V.; KRYLOV, A.V.; GARAYEVA, K.G.; GEYDEN, T.M.

Effect of various chemicals on the sprouting of potato tubers during storage. Dokl. AN SSSR 121 no.1:175-178 J1-Ag '58. (MIRA 11:9)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR.
Predstavлено академиком А.Л. Курсановым.
(Potatoes--Storage) (Growth inhibiting substances)

R A K I T I N, Yu. V.

- 1) NAME & WORK EXPERTISE: Sov/213
2) DATE & WORK EXPERTISE: Sov/213

International Conference on the Peaceful Uses of Atomic Energy. Geneva, 1956

Soviet Scientific Society: Publishing & Promotional Bureau (Report of Soviet Scientists' Production and Application of Scientific Works), Moscow, April 1959. 388 p. (Soviet: 120; Trinity, vol. II: 8,000 copies printed).

Book: [Title page], O.V. Karpov, Academician, and I.I. Soskov, Corresponding Member, USSR Academy of Sciences. Ed.: [Title book]: Z.D. Abrikosov. Sov. Ed.: Z.D. Abrikosov.

Comment: This book is intended for scientists, engineers, technicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate and undergraduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

content: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1956. Volumes 6 consist of 32 reports on: 1) Isotopes and their isotopic methods for the production of stable radioactive isotopes and their isotopic compounds; 2) radioactive methods of investigation of the aid of isotopes in the field of chemistry, metallurgy, architecture, building, and agriculture; and 3) dosimetry of ionized radiation. Volume 6 was edited by J.V. Ternovskiy, Candidate of Medical Sciences, and V.P. Prokof'yev, Candidate of Chemical Sciences; and V.P. Gerasimov, Candidate of Medical Sciences. See Sov/213 for titles of volumes of the set. References appear at the end of the article.

16. Shvartz, A.Y., V.L. Karpey, and Y.F. Glaztova. Soviet Sources of High Intensity for Radiation Action (Report No. 2034)

17. Osser, B.O., Yu. Ye. Kondratenko, and V.I. Prozor. Gamma Radiation Dose, and Outside External Sources (Report No. 2035)

18. Krasik, E.K., M.A. Pak, V.P. Nekrasov, Yu.G. Orlovskiy, L.V. Terpilovs'kaia, L.A. Petrenko. System of Radiometric Measurement of radioactive isotopes (Report No. 2037)

19. Aktinov, K.K., V.P. Kavtina, V.P. Mikroskop, and V.V. Smirnov. Application of Nuclear Spectroscopy Methods to Beta and Gamma-ray Dosimetry (Report No. 2501)

20. Narozny, P.D., V.I. Golovkin, and V.G. Rostovtsev. Instrument for Recording Small Streams of High-Energy Neutrons (Report No. 2071)

21. Chubakov, A.R., V.F. Polikarpov, and V.A. Melikova. Measured and Analyzed Air Contamination by Low Concentrations of Aerosol Alpha Particles (Report No. 2101)

22. Zolotnikov, O.V., V.L. Ternovskiy, and O.A. Smetanina. Photoynthesis Studies by Quantitative Radiometric Methods (Report No. 2151)

23. Kondratenko, Yu. Ye., V.A. Shestopalov, Effect of the Radioactive Marshmallows on the Absorption and Secretion of Phosphorus and Sulphur by the Smallint Roots of Woody Plants (Report No. 2152)

24. Narozny, V.I., and N.D. Proforenko. Absorption of Phosphorus Traces by Cultural Plants in Relation to Their Resistance to Cold (Report No. 2153)

25. Abrikosov, D.A., Yu. Ye. Krastina, and A.V. Petrov-Shirkov. System of Absorption and Secretion in Plants (Report No. 2251)

26. Abrikosov, D.A., and V.A. Shestopalov. Effect of the Radioactive Marshmallows on the Absorption and Secretion of Phosphorus and Sulphur by the Smallint Roots of Woody Plants (Report No. 2252)

27. Abrikosov, D.A., Yu. Ye. Krastina, V.A. Nekrasov, and A.V. Chernyshev. Allometric Study of Radioactive Isotopes for Plant Protection (Report No. 2253)

RAKITIN, Yu., prof.

Controlling the life of plants. Izobr. i rats. no.9:10-11 S '59.
(MIRA 13:1)

(Growth promoting substances)

17(4),30(1)

AUTHORS: Rakitin, Yu. V., Potapova, A. D. SOV/26-126-6-62/67

TITLE: Effect of the Herbicides on the Respiration and Photosynthesis
of Oats and Sunflower (Vliyanie gerbitsidov na dykhaniye i
fotosintez ovsa i podsolnchnika)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1371-1374
(USSR)

ABSTRACT: 2,4-D and some other chemicals increase respiration when applied in small doses, whereas they obstruct the same when applied in large doses (Refs 1-6). Carbamates decrease the intensity of respiration and photosynthesis. The isopropyl phenyl carbamate (IPhK) not only has the same effect, but also suppresses the activity of the carbon-anhydrase (Ref 9). A rapid decrease of the activity of the photosynthesis can be achieved by 2,4-D, β -naphthoxy, monoiodo- and parachloro phenoxy acetic acid, phenyl-urethan, and hydroxylamine (Refs 5, 11, 15). - In the present paper the authors report on test results obtained in the years 1952-1954 in field lots with sunflower Saratovskiy, oat Moskovskiy A-315, and weed Stellaria media. The following herbicides were used: aqueous solutions of 1) sodium salt of 2,4-D; 2) diethanolamine, triethanolamine,

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and sodium salt of the hydrazide of maleic acid (MAH), as well as water emulsions of isopropyl-ester of chlorophenyl carbamic acid (chlorine IPhS). The plants were sprayed with 1,000 l of the solution per ha of crop. All physiological changes were studied in the leaves (Refs 12,13,16). Part of the results summarized in tables 1 and 2 make it evident that the redox processes in plants are strongly disturbed by the herbicides. The degree of the disturbances depends on the development stage of the plant and its biological peculiarities as well as on the quantity of the chemicals applied. In the treatment with large doses (0.15 and 0.075 %) of 2,4-D the intensity of the respiration-gas exchange in sunflowers is decreased within the first 2 days but rises again after some days, prior to the death of the plant. The test plants strongly differed by their appearance from the control plants: their growth was strongly inhibited; whereas the control plants had 5-7 leaves, the treated plant had only 2 leaves with thickened petioles. These plants gradually blackened and dried up. Table 1 shows that after treatment with 2,4-D (0.15 %) the activity of the ascorbic oxidase decreases by the 2.5-fold whereas the

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activity of peroxidase increases rapidly. Quite to the contrary, the activity of ascorbic oxidase in oat increases considerably during the day following the treatment. Tables 2 and 3 show the effects of 2,4-D and chlorine IPhS on the respiration and photosynthesis of oat, sunflower, and *Stellaria media*. Herbicides suppress photosynthesis in plants in various ways (Table 3). Chlorine IPhS practically stops the photosynthesis in *Stellaria media*. If smaller than lethal doses are applied plants may overcome the physiological disturbance brought about by herbicides. A detoxication of the foreign chemical takes place in the plant. Its rate depends on the kind of plant, its physiological state, chemical structure, physical properties, and dose of the herbicide. There are 3 tables and 16 references, 13 of which are Soviet.

ASSOCIATION: Institut fiziology rasteniy im. K. A. Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni K. A. Timiryazev of the Academy of Sciences of the USSR)

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Effect of the Herbicides on the Respiration and
Photosynthesis of Oats and Sunflower

S07/20-126-6-62/67

PRESENTED: March 23, 1959, by A. L. Kursanov, Academician

SUBMITTED: March 20, 1959

Card 4/4

RAKITIN, Yu.V.; GEYDEN, T.M.

Reducing premature apple and pear drop in the Crimea. Fiziol. rast.
6 no.4:484-486 J1-Ag '59. (MIRA 12:10)

I.K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.

(Crimea--Fruit culture)
(Plants, Effect of naphthaleneacetic acid on)
(Plants, Effect of propionic acid on)

RAKITIN, Yu.V.; KRYLOV, A.V.; GEYDEN, T.M.; GARAYEVA, K.G.

Inhibiting the sprouting of tubers in different potato varieties
during prolonged storage. Fiziol. rast. 6 no.4:500-503 Jl-Ag '59.
(MIRA 12:10)

I.K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.
(Potatoes--Storage) (Plants, Effect of naphthaleneacetic acid on)

RAKITIN, Yu. V.; MEL'NIKOV, N.N.; SHIDLOVSKAYA, I.L.; BOKAREV, K.S.

Structure and physiological activity of some 2,4,5-trichlorophenoxy-acetyl amino acids. Fiziol.rast. 6 no.6:729-734 N.D '59.
(MIRA 13:4)

1. K.A.Timirazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.

(Growth promoting substances)
(Growth inhibiting substances)

RAKITIN, Yu.V.; POTAPOVA, A.D.

Penetration of herbicides into plants and their influence on the absorption of phosphorus. Fiziol. rast. 6 no.5:614-616 S-0 '59.
(MIRA 13:2)

I.K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.
(Herbicides) (Phosphorus) (Plants--Assimilation)

RAKITIN, Yu.V.; IMAMALIYEV, A.

Influence of certain factors on the effectiveness of chemical
defoliation of apple seedlings. Uzb.biol.zhur. no.4:57-60
'59. (MIRA 13:1)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR.
(Apple) (Defoliation)

RAKITIN, Yu.V., doktor biolog. nauk; POTAPOVA, A.D.

Pre-emergence treatment of soils with herbicides. Dokl. Akad. sel'khoz. 24 no.7:29-33 '59. (MIRA 12:10)

1.Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR.
Predstavlena chlenom-korrespondentom AN SSSR I.I. Tumanovym.
(Herbides) (Soil disinfection)

RAKITIN, Yu.V.; IMAMALIYEV, A.

Chemical defoliation of fruit trees [with summary in English]. Fiziol.
rast. 6 no.1:61-66 Ja-F '59. (MIRA 12:2)

1. K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy of
Sciences, Moscow.

(Fruit trees) (Defoliation)

RAKITIN, Yu.V.; IMAMALIYEV, A.

Physiological changes in fruit trees due to chemical defoliation
Fiziol.rast. 6 no.2:197-201 Mr-Ap '59. (MIRA 12:5)

I. K.A. Timiryazev. Institute of Plant Physiology, U.S.S.R.
Academy of Sciences, Moscow.
(Fruit trees) (Defoliation)

17(4), 30(1)

AUTHORS:

Rakitin, Yu. V., Potapova, A. D.

sov/20-126-3-64/69

TITLE:

Influence of 2,4-D and Chlorine-IFK on the Transpiration and
on Some Colloidal Properties of the Protoplasm (Vliyaniye
2,4-D i khlor-IFK na transpiratsiyu i nekotoryye kolloidnyye
svoystva protoplazmy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 3, pp 688-691
(USSR)

ABSTRACT:

Herbicide doses of 2,4-D and of some other chemical weed-killers cause several essential disturbances in the plants: a reduction of photosynthesis (Refs 1, 3, 4, 11), considerable shifting of the intensity and character of transpiration (Refs 2, 5, 6), as well as essential changes in the carbohydrate and nitrogen exchange (Refs 7, 9, 12). The influence mentioned in the title is limited to individual facts and assumptions in publications (Refs 14-22). In the present paper, the authors put forward the results of their investigations (1953-54) of the effect of 2,4-D (sodium salt) and chlorine-IFK (isopropyl-ester of the 3-chlorophenyl-carbamic acid) on the transpiration and on the water-binding capacity of the leaves, as well as on the viscosity and permeability of the protoplasm

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Influence of 2,4-D and Chlorine-IFK on the Transpiration and on Some Colloidal Properties of the Protoplasm SOV/20-126-3-64/69

of the sunflower species Saratovskiy, of the oats Moskovskiy A-315, and of the weed *Stellaria media*. The plants were sprayed with a water solution of 2,4-D and a wateremulsion of the chlorine-IFK, both chemically pure. The soil moisture in the growing vessels was strictly maintained. 2,54 ml of solution was consumed per vessel. As is shown in table 1, the intensity of transpiration of the sunflower falls after treatment, especially under the influence of the chlorine-IFK. Most affected were the leaves of the upper section: they evaporate about half of the normal quantity of water. With oats, the matter was quite different: while 2,4-D decreased transpiration, the influence of chlorine-IFK increased it. The same occurred with *Stellaria*. OP-7 had nearly the same effect on *Stellaria*. The percentage of dry substance varied considerably in the leaves of the plants treated. The increase in dry substance was due to the strong withering of the leaves (Table 1). The leaves of the sunflower grow thicker and fleshier under the influence of 2,4-D. The leaves of oats can retain less water under the influence of chlorine-IFK, the higher the dosis of the preparation is. The moisture evaporates, and the plants dry up.

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Influence of 2,4-D and Chlorine-IFK on the Transpiration SOV/20-126-3-64/69
and on Some Colloidal Properties of the Protoplasm

The result is the same for sunflowers and oats: the plants die away. In young sunflowers, 2,4-D causes variations in the protoplasm permeability (Table 3). In oats and *Stellaria*, it increases by 10-18 times under the influence of chlorine-IFK and OP-7 (Table 4). In the sunflower, the toxic action of the herbicide is gradually overcome while in oats it leads to an irreparable poisoning. It ends with the death of the plant. The selectivity of the effect of the weed-killers investigated is caused by the circumstance that in the plants resisting to herbicide its toxicity is overcome, whereas in plants not resisting it causes irreversible disturbances of the life activity. There are 4 tables and 22 references, 10 of which are Soviet.

ASSOCIATION: Institut fiziologii rasteniy im. K. A. Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni K. A. Timiryazev of the Academy of Sciences, USSR)

PRESENTED: February 24, 1959, by A. L. Kursanov, Academician

SUBMITTED: February 23, 1959

Card 3/3

RAKITIN, Yu.V.; GEYDEN, T.M.

Chloro-IPC as an effective means of controlling the weed *Stellaria media*. *Fiziol. rast.* 7 no.2:232-234 '60. (MIRA 14:5)

1. K. A. Timiriazev Institute of Plant Physiology, U.S.S.R.
Academy of Sciences, Moscow.

(Carbanilic acid)
(Herbicides)
(Chickweed)

RAKITIN, Yu.Y.: POVOLOTSKAYA, K.L.

Microchemical determination of ethylene. Fiziol.rast. 7
no.3:366-373 '60. (MIRA 13:6)

I. K.A. Timiryazev Institute of Plant Physiology, U.S.S.R.
Academy of Sciences, Moscow.
(Ethylene) (Fruit—Chemical composition)
(Microchemistry)

RAKITIN, Yu.V.; BOKAREV, K.S.; KRAFT, V.A.; RAKITINA, Z.G.; GEYDEN, T.M.
GURVICH, S.H.

New defoliants and desiccants for cotton. Fiziol. rast. 8
no.4:506-511 '61. (MIRA 14:11)

1. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.

(Cotton)
(Defoliation)

RAKITIN, Yu.V., prof.

What are the chemical regulators of plant growth and their practical significance? Biol. v shkole no.6:90-92
N-D '61. (MIRA 14:11)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR.
(Growth promoting substances)
(Growth inhibiting substances)

RAKITIN, Yu.V.; ZEMLSKAYA, V.A.; ALEKSANDROV, M.A.

Preharvest chemical desiccation of rice. Izv. AN SSSR. Ser. biol.
26 no.5:729-739 S-0 '61. (MIRA 14:9)

1. The Kuban Experimental Rice Plantation, Institute of Plant
Physiology, Academy of Sciences of the U.S.S.R., Moscow.
(RICE--HARVESTING) (DRYING AGENTS)

ZEMSKAYA, V.A.; RAKITIN, Yu.V.

Detoxication of isopropyl phenyl carbamate in sunflower and oat plants.
Fiziol. rast. 8 no.2:220-225 '61. (MIRA 14:3)

I. M. A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of
Sciences, Moscow.
(Carbamic acid) (Plants, Effect of poison on)

RAKITIN, Yu.V., prof., otv. red.; IMAMALIYEV, A.I., kand. biol. nauk, zam. otv. red.; SADIKOV, S.S., red.; TSUKERVANIK, I.P., red.; OVCHANOV, K.Ye., doktor biol. nauk, red.; ALEYEV, B.G., kand. sel'khoz. nauk, red.; KAMILLOVA, R.M., kand. bil. nauk, red.; ASTAKHOV, A.N., red.; KABABAYEVA, Kh.U., tekhn. red.

[Materials of the Uzbek Conference on the Methods and Study of the Use of Defoliants, Desiccants, and Herbicides in Cotton Growing] Materialy Respublikanskogo nauchno-metodicheskogo soveshchaniya po primeneniiu defoliantov, desikantov i gerbitsidov v khlopkovodstve. Tashkent, Izd-vo Akad. nauk UzSSR, 1962. (MItA 15:7) 202 p.

1. Respublikanskoye nauchno-metodicheskoye soveshchaniye po primeneniyu defoliuntov, desikantov i gerbitsidov v khlopkovodstve, Tashkent, 1960.
2. Chlen-korrespondent Akademii nauk Uzbokskoy SSR (for Sadykov, TSukervanik).
3. Institut fiziologii rastenij im. K.A.Timiryazeva Akademii nauk SSSR (for Rakitin, Ovcharov).
4. Institut genetiki i fiziologii rasteriy Akademii nauk Uzbokskoy SSR (for Sadykov, Imamaliyev, Kamilova).
5. Institut zashchity rastenij Ministerstva sel'skogo khozyaystva Uzbokskoy SSR (for Aleyev).

(Uzbekistan---Cotton research---Congresses)

POVOLOTSKAYA, K.L.; RAKITIN, Yu.V.; KHOVANSKAYA, I.V.

Participation of heteroauxins in the translocation of sugars in
plants. Fiziol. rast. 9 no.3:303-308 '62. (MIRA 15:11)

I. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.
(Indolacetic acid) (Sugars) (Plants--Respiration)

RAKITIN, Yu.V., otv. red.; ARKHANGEL'SKIY, N.I., red.; KRETOWICH,
V.L., red.; METLITSKIY, L.V., red.; SHTEYNBERG, D.M., red.
[deceased]; SHCHERBINOVSKIY, N.S., red.; YAKOVLEV, B.V.,
red.; POVOLOTSKAYA, K.L., red.; SUSHKOVA, L.A., tekhn.
red.; VOLKOVA, V.V., tekhn. red.

[Scientific principles in crop protection] Nauchnye osnovy
zashchity urozhaiia. Moskva, Izd-vo AN SSSR, 1963. 246 p.
(MIRA 17:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
V.I.Lenina. 2. Institut fiziologii rasteniy im. K.A.
Timiryazeva AN SSSR, Moskva (for Rakitin). 3. Institut evo-
lyutsionnoy fiziologii im. I.M.Sechenova AN SSSR, Leningrad
(for Yakovlev). 4. Institut biokhimii im. A.N.Bakha AN SSSR,
Moskva (for Metlitskiy).

(Crop yields)

SISAKYAN, N.M., akademik, glav. red.; ROSTOVTSEV, N.F., akademik, zam. glav. red.; BUKIN, V.N., zasl. deyatel' nauki i tekhniki RSFSR, doktor biol. nauk, zam. glav. red.; MOZGOV, I.Ye., akademik, red.; KRASIL'NIKOV, N.A., red.; RAKITIN, Yu.V., red.; OVSYANNIKOV, A.I., red.; SHMANENKOV, N.A., doktor sel'khoz. nauk, red.; SAVEL'YEV, I.K., kand. sel'khoz. nauk, red.; KOCHEREZHKIN, V.G., kand. biol. nauk, red.; MIKHLIN, E.D., ved. red.; KOLPAKOVA, Ye.A., red. izd-va; KVINA, Yu.V., tek.n. red.

[Problems of increasing the use of chemicals in animal husbandry; using biologically active preparations] Voprosy khimizatsii zhivotnovodstva; primenenie biologicheski aktivnykh preparatov. Sbornik rabot. Moskva, Izd-vo AN SSSR, 1963. 303 p. (MIRA 17:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina. 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Rostovtsev, Mozgov). 3. Chlen-korrespondent AN SSSR (for Krasil'nikov, Rakitin). 4. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Ovsyannikov).

(Stock and stockbreeding—Feeding and feeds)
(Agricultural chemistry)

PEYVE, Ya.V.; PETERBURGSKIY, A.V., doktor sel'khoz. nauk, prof.; GAR,
K.A., kand. sel'khoz. nauk; GOLYSHIN, N.M., kand. biol.
nauk; KOROTKIKH, G.I., kand. sel'khoz. nauk; CHESALIK, G.A.,
kand. sel'khoz. nauk; RAKITIN, Yu.V., doktor biol. nauk;
ZEZYULINSKIY, V.M., kand. sel'khoz. nauk; DEVYATKIN, A.I.,
kand. sel'khoz. nauk; VENEDIKTOV, A.M., kand. sel'khoz. nauk;
TARANOV, M.G., kand. biol. nauk; BORISOVA, L.G.; BEREZNIKOV,
V.V., kand. tekhn. nauk; KONDRATENKO, R.V., st. nauchn. sotr.;
BORISOV, F.B., st. nauchn. sotr.

[Chemistry in agriculture] Khimiia v sel'skom khoziaistve.
Moskva, Kolos, 1964. 381 p. (MIRA 17:9)

1. Chlen-korrespondent AN SSSR (for Peyve). 2. Nachal'nik
laboratorii Nauchno-issledovatel'skogo instituta plastmass
(for Borisova). 3. Nauchno-issledovatel'skiy institut
plastmass (for Kondratenko, Borisov).

RAKITIN, Yu.V., NEFEDOV, V.B.

Study of the chemical defoliation of Soviet fine-fiber cotton. Izv. AN Turk. SSR, Ser. biol. nauk no.1(74-77) '66.
(MIRA 1789)

1. Institut botaniki AN Turkmenskoy SSR.

BOKAREV, K. S.; RAKITIN, Yu. V., trv. red.; PASHKOVSKIY, Yu. A.,
red.

[Plant defoliants and desiccants] Defoliants i desikanty
rastenii. Moskva, Nauka, 1965. 46 p. (MIRA 18:7)

1. Chlen-korrespondent AN SSSR (for Rakitin).

RAKOVIN, Vasil.

Chemical regulators of plant growth. Test. AM RCSR 35 no. 812-01
Ag 165. (MIRA 1318)

3. Chernobyl spending. AM RCSR.

USSR / Cultivated Plants. General.

Abs Jour: Ref Zhur-Biol., 1958, No 10, 72843.

Author : Gaysin, Sh.; Rakitina, A.

Inst : Not given.

Title : On the Role of Pure and Occupied Fallows.

Orig Pub: Bashkortostan auyi khuzhalify, 1957, No 9, 13-17;
S.kh. Bashkirii, 1957, № 9, 13-16.

Abstract: No abstract.

Card 1/1

YASHCHENKO, L.K.; SOKOLOVA, V.T.; RAKITINA, G.N. (Novorossiysk)

Successful application of the group piecework wage system.
Shvein.prom. no.1:35-36 Ja-F '62. (MIRA 15:4)
(Novorossiysk—Wages—Clothing industry)

EXCERPTA MEDICA Sec 9 Vol 13/7 Surgery July 59

3608. (1049) THE USE IN SURGICAL PRACTICE OF AN ERYTHROCYTE SUSPENSION IN NO. 8 PLASMA SUBSTITUTE SOLUTION (Russian text) - Rakitina L N. - NOV. KHIR. ARKH. 1957, 2 (12-15)

An efficient erythrocyte suspension is obtained by the addition of plasma substitute solution No. 8 to erythrocytes immediately after their separation from plasma. The volume of solution added should equal the volume of plasma removed. The plasma substitute solution No. 8 consists of 1 l. of doubly distilled water, 90 g. of saccharose, 6 g. of glucose, 3.5 g. of sodium citrate, 1 g. of sodium sulphate and 0.012 g. of rivanol (ethacridine). 1,590 transfusions were carried out in 1,189 patients. With shock of grade I or II good results were obtained. With shock of grade III this preparation is insufficient and a transfusion of whole blood or plasma is necessary. With shock of grade IV it is necessary to transfuse both the preparation and whole blood. The preparation was used in the following doses: for thoracic operations 200-600 ml. by drip transfusion throughout the period of operation, and for acute anaemias 400 to 1,400 ml. Fractional doses of 200-400 ml. every 3-4 days stimulate erythropoiesis. (S)

3609. (1050) PLASMA SUBSTITUTE

RAKITINA I. N. kandidat meditsinskikh nauk (Sverdlovsk, El'mash, ul.
Starykh Bol'shevikov, d.24, kv.4)

Using an erythrocyte suspension in plasma substitute No.8 in
surgical practice. Nov.khir.arkh.no.2:12-15 Mr-Ap '57. (MLRA 10:8)

1. Kafedra gospital'noy khirurgii (zav. - chlen-korrespondent AMN
SSSR zasluzhennyy deyatel' nauki prof. A.T.Lidskiy) Sverdlovskogo
meditsinskogo instituta
(BLOOD PLASMA SUBSTITUTES) (ERYTHROCYTES)

RAKITINA, I. N. -- "An Erythrocytic Suspension in Plasma-Substituted Com-
position in the Surgical Clinic." Everil'sky State Medical Inst.
Sverdlovsk, 1955. (Dissertation for the Degree of Candidate
in Medical Sciences)

SC: 'Frizmaya i sten'is', No. 1, 1956

KLIMOV, K.M., professor, laureat Stalinskoy premii; SMIRNOV, Ye. professor; KIRILLOV, B.K., professor, FAYVISHENKO, E.L., professor, MUKHIN, M.T. professor; BAL', professor, MORENBERG-CHARKVIANI, A.Ye., doktor meditsinskikh nauk; SAKHAROV, M.I., doktor meditsinskikh nauk; MAKAROV, M.P., dotsent; BUTIKOVA, N.I., dotsent; SHELOMOVA, T.P., kandidat meditsinskikh nauk; RAKITINA, L.N., kandidat meditsinskikh nauk; KAMPEL'MAKHER, Ya.A., kandidat meditsinskikh nauk.

Forty years of Professor A.T.Lidskii's scientific, medical and pedagogical activities. Khirurgia no.6:82-83 Je '55 (MIRA 8:10)
(LIDSKII, ARKADII TIMOFEEVICH)

RAKITINA, L.N.

Intestinal lead colic in the work practice of the department of
surgical emergency. Sov.med. 19 no.4:29-33 Ap '55. (MLRA 3:6)

1. Iz gospital'noy khirurgicheskoy kliniki (zav.-zasluzhennyj
doyateli' nauki chlen-korrespondent Akademii meditsinskikh nauk
SSSR prof. A.T.Lidskiy). Sverdlovskogo meditsinskogo instituta.

(COLIC,

intestinal, caused by lead poisoning, ther.)

(LEAD POISONING, compl..

intestinal colic, ther.)

R.H. et al.
PASEKOV, N.V.; VENILKVA, F.I.; RAKITINA, L.S.

Volcanic ashes of quaternary deposits in the southeastern part
of the Kura Lowland. Dokl. Akad. Nauk Azerb. SSR 13, no.6:672-646. '56.
(USSR 10:8)

I. Institut geologii Akademii nauk Azerbaydzhanskoy SSR. Predstavleno
Akademikom Akademii nauk Azerbaydzhanskoy SSR, N. V. Karbikyan.
(Kura Lowland--Volcanic ash, tuff, etc.)

LEBEDEV, K.K.; TOMINA, L.A.; RAKITINA, M.A.; KARIN, V.Ya.

Absorption of impurities in the discharging of waste waters
of wood chemicals industries into peat bogs. Sbor. trud.
TSNIIKHI no.15:123-129 '63.

(MIRA 17:11)

GURICH, N.A.; RAKITINA, M.A.; VINGRADOV, G.I.

Use of oleoresins and colophony obtained from harwoods in the
various branches of the industry. Gidroliz. i lesokhim. 18
no.2:15-16 '65. (MIRA 18:5)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektnyy institut
lesokhimicheskoy promstolennosti.

RAKITINA, M.A.

Preparatory work on standardization in the wood chemical industry
Gtiroliz. i lesokhim. prom. 18 no.334-5 '65. (MIRA 18:5)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektnyy institut
lesokhimicheskoy promyshlennosti.

IEBEDEV, K.K.; CHISTOV, I.F.; RAKITINA, M.A.

Improving the quality of n-butanol produced by synthetic rubber factories. Gidroliz. i lesokhim. prom. 17 no.3:13-15 '64.
(MIRA 17:9)

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut.

RAKITINA, N.P.

Biological characteristics of pike perch of the Dniester River.
Uch. zap. Kish. un. 62 no.1:93-100 '62. (MIRA 16:7)

1. Kafedra zoologii posvonomochnykh zhivotnykh Kishinevskogo
gosudarstvennogo universiteta.
(Dniester River—Pike perch)

BURNASHEV, M.S.; CHIPURNOV, V.S.; RAKITINA, N.P.

Completing the incubation of eggs of the Dnieper pike perch in
Dubossary Reservoir. Uch.zap.Kish.un. 32:171-173 '58. (MIRA 13:6)
(Dubossary Reservoir--Perch)

MALKIN, P.F.; RAKITINA, P.A.

Erythematous reaction of the skin to ultraviolet rays in mental diseases. Nevropat.psikhiat., Moskva 20 no.1:94-96 Jan-Feb 51.
(CLML 20:6)

1. Prof.P.F.Malkin. 2. Of the Psychiatric Clinic of Sverdlovsk Medical Institute and of Sverdlovsk Oblast Psychiatric Hospital (Head of Clinic and Scientific Director of Hospital--Prof.P.F.Malkin; Head Physician of Hospital -- Candidate Medical Sciences P.M.Zhelobov).

YEFREMOVA, L.A., zasluzhenny master sporta; ZAK, M.G.; RAKITINA, K.I., starshiy metodist; ZABAROVSKIY, K.K.; GOL'BERG, A.Ya.; KAZAKOV, M.B.; ZHAVORONKOV, I.Ye. (Kerch'); KLYUCHAREVA, I.R. (Moskva); BELAYA, N.A., kand.med.nauk; POFOV, B.F., artist

We continue the discussion of the power of physical culture.
Zaporov'e 8 no.8:26-28 Ag '62. (MIRA 15:8)

1. Zamestitel' glavnogo vracha 2-go Moskovskogo vrachetno-fizkul'-turnogo dispansera (for Yefremova).
2. Glavnyy vrach Oblastnogo vrachetno-fizkul'turnogo dispansera, Rostov-na-Donu (for Zak).
3. Respublikanskiy vrachetno-fizkul'turnyy dispanser, Kiyev (for Rakitina).
4. Glavnyy vrach Respublikanskogo vrachetno-fizkul'turnogo dispansera, Minsk (for Zabarovskiy).
5. Zaveduyushchiy kabinetom lechebnoy fizkul'tury Respublikanskogo vrachetno-fizkul'turnogo dispansera, Minsk (for Gol'berg).
6. Glavnyy vrach Gorodskogo vrachetno-fizkul'turnogo dispansera, Sverdlovsk (for Kazakov).
7. Gosudarstvennyy Akademicheskiy Malyy teat (for Popov).

(PHYSICAL EDUCATION AND TRAINING)

PYATNITSKIY, N.P.; PYATNITSKAYA, I.N.; RAKITINA, S.F.

Method of quantitative determination of pepsin and hydrochloric acid in a small Pavlov's pouch in dogs [with summary in English]. Biul.eksp.biol. i med. 44 no.9:10-15 S '57. (MIRA 10:12)

1. Iz kafedry biokhimii (zav. - prof. N.P.Pyatnitskiy) Kubanskogo meditsinskogo instituta (dir. - prof. V.K.Sprunov), Krasnodar. Predstavlena deystvitel'num chlenom AMN SSSR V.N.Chernigovskim. (GASTRIC JUICE,

acidity & pepsin in Pavlov's pouch, determ. (Rus))
(PEPSINS, determination
in Pavlov's pouch (Rus))

FREYDMAN, S.M.; RAKITINA, Ye.D., redaktor; GALLOD, A.I., tekhnichoskiy
redaktor

[From laggards to leaders; a collection of articles by collective
farm chairmen and party workers] Iz otstaiushchikh v peredovye;
sbornik statei predsedatelei kolkhozov i partiinykh rabotnikov.
Izd. 3-e, dop. i perer. Moskva, Gos. izd-vo selkhoz. lit-ry, 1955.
292 p.

(MIRA 9:8)

(Collective farms)

ORLOVSKIY, Kirill Prokof'yevich, deputat Verkhovnogo Soveta SSSR, Geroy Sovetskogo Soiuza; RAKITINA, Ye.D., redaktor; PERESYPKINA, Z.D., tekhnicheskiy redaktor; SUKOLOVA, N.N., tekhnicheskiy redaktor

[Every collective farm can be like this one] Takim mozhet stat' kazhdyy kolkhoz. Izd. 2-oe, ispr. i dop. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 109 p.

(MLRA 9:11)

1. Predsedatel' kolkhoza "Rassvet" (for Orlovskiy)
(Collective farms)

西汉王莽，新朝

TEKENT'YEV, M.L.; OSAD'KO, M.P.; BRAGINSKIY, B.I.; SLOBODIN, V.M.; FISHMAN, Z.A.; LEVIN, I.Ye.; TSYNKOVA, M.YU.; BADIR'YAN, G.G.; TYUTIN, V.A.; ABRAMOV, V.A.; FRAYER, S.V.; KOBCHIKOVA, I.A.; KARNAUKHOVA, Ye.I.; OBOLENSKIY, K.P.; IL'IN, S.A.; GAVRILOV, V.I.; FREYDMAN, S.M.; KALASHNIKOVA, V.S., redaktor; LAPIDUS, M.A., redaktor; RAKITINA, Ye.D., redaktor; FEDOTOVA, A.P., tekhnicheskij redaktor

[Manual for students of collective farm economy] V pomoshch' izuchaiushchim ekonomiku kolkhozov. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 423 p. (MIRA 10:1)
(Collective farms)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

IVANOV, A.Ye.; KOZLOVSKIY, N.G.; KAL'CHENKO, S.V., redaktor; MART'YANOV, P.M., redaktor; PEROV, S.V., redaktor; PYLAYEVA, A.P., redaktor; TERESHCHENKO, N.I., redaktor; OVCHINNIKOVA, A.N., redaktor; RAKITINA, Ye.D., redaktor; VALLAD, A.I., tekhnicheskiy redaktor; VESTKOV, Ye.T., tekhnicheskiy redaktor

[Handbook for directors of state farms] Spravochnaya kniga direktora sovkhoza. Izd. 3-e, perer. Moskva. Gos. izd-vo sel'khoz. lit-ry. Pt.1.1956. 952 p. Pt.2.1956. 1016 p. (MLB 10:3)
(State farms)

GOROKHOV, Georgiy Il'ich; RAKITINA, Ye.D., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor

[Land organization on collective farms] Vnutrikhозiaistvennoe zemle-
ustroistvo kolkhozov. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956.
294 p.

(MLB 10:4)

(Farm management) (Collective farms)

ORLOVSKIY, Kirill Prokof'yevich; RAKITINA, Ye.D., redaktor; PERESYPKINA, Z.D.,
tekhnicheskiy redaktor; SOKOLOVA, N.P., tekhnicheskiy redaktor.

[Every collective farm can be like this one] Takim mozhet stat'
kazhdyi kolkhoz. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 111 p.
(MIRA 10:11)
(Collective farms)

VINOKUROV, Konstantin Vasil'evich; RAKITINA, Ye.D., red.; BALLOD, A.I.,
tekhn.red.

[Owners of the land] Khoziaeva zemli. [Moskva] Gos. izd-vo sel'khoz.
lit-ry, 1957. 124 p. (MIRA 11:5)
(Collective farms)

SHCHERBOV, Nikita Antonovich, doktor sel'skokhozyaystvennykh nauk.;
RAKITINA, Ye. D., red.; GUREVICH, M.M., tekhn. red.

[How to organize group management of swine] Kak organizovat'
gruppovoe soderzhanie svinei. Moskva, Gos. izd-vo sel'khoz.
lit-ry, 1958. 107 p. (MIRA 11:11)
(Swine)

GORDEYEV, G.S., prof.; YAKUSHKIN, D.I.. Prinimali uchastiye: GORSKAYA, N.V.;
GRANOVSKAYA, A.Ye.; YEVSTIGNEYEVA, Yu.G.; KRYLOV, M.V.; LEYKIN, D.I.;
MAKHOVETSKIY, V.B.; MEYENDORF, A.L.; NAZARENKO, V.I.; NICHIPORUK,
O.K.; PAVLOV, L.I.; RUMYANTSEVA, N.V.; SOSENSKIY, I.I.; CHERNEVSKIY,
Yu.V.. TULUPNIKOV, A.I., red.; SOLOV'YEV, A.V., prof., red.;
RAKITINA, Ye.D., red.; ZUBRILINA, Z.P., tekhn.red.

[Agriculture in capitalist countries; a statistical manual] Sol'skoe
khoziaistvo kapitalisticheskikh stran; statisitcheskii sbornik.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 247 p. (MIRA 12:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
sel'skogo khozyaystva. 2. Otdel nauchnoy informatsii po ekonomike i
organizatsii sel'skogo khozyaystva zarubezhnykh stran Vsesoyuznogo
nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva
(for all except Tulupnikov, Solov'yev, Rakitina, Zubrilina). 3.
Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki
sel'skogo khozyaystva (for Tulupnikov). 4. Zamestitel' direktora
Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo
khozyaystva (for Solov'yev).

(Agriculture--Statistics)

BRAGINSKIY, Boris Iosifovich; RAKITINA, Ye.D., red.; SOKOLOVA, N.N..
tekhn.red.; DEYEEVA, V.M., tekhn.red.

[How to compute the productivity of labor on collective farms]
Kak ischislit' proizvoditel'nost' truda v kolkhozakh. Moskva,
Gos.izd-vo sel'khoz.lit-ry. 1958. 82 p. (MIRA 12:6)

1. Sotrudnik Nauchno-issledovatel'skogo ekonomicheskogo instituta
Gosplan'a SSSR (for Braginskiy).
(Agriculture--Labor productivity) (Collective farms)

BORODIN, I.A., doktor ekonom.nauk, red.; IVANOVA, A.N., red.; RAKITINA, Ye.D., red.; PROKOF'YEVA, L.N., tekhn.red.

[Economic problems of state farm production] Voprosy ekonomiki sovkhoznogo proizvodstva. Pod red. I.A.Borodina. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1959. 230 p. (MIRA 13:3)

1. Akademiya nauk SSSR. Institut ekonomiki.
(State farms)

BUYANOV, P.S., kand.ekon.nauk, red.; LAPTEV, I.D., prof., red.; SEMIN, S.I., kand.ekon.nauk, red.. Prinimala uchastiye SUVOROVA, L.I., mladshiy nauchnyy sotrudnik. RAKITINA, Ye.D., red.; BALLOD, A.I., tekhn.red.

[Development of collective-farm economy] Razvitiye obshchestvennogo khoziaistva kolkhozov. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960.
294 p. (MIRA 13:?)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Institut ekonomiki AN SSSR (for Buyanov, Laptev, Semin, Suvorova).
(Collective farms--Finance)

BUYANOV, P.S., kand.ekonom.nauk, red.; LAPTEV, I.D., prof., red.;
SEMIN, S.I., kand.ekonom.nauk, red.. Prinimala uchastiye
SUVOROVA, L.I., mladshiy nauchnyy sotrudnik. RAKITINA,
Ye.D., red.; BALLOD, A.I., tekhn.red.

[Developing the communal economy of collective farms] Razvitiye
obschestvennogo khoziaistva kolkhozov. Moskva, Gos.izd-vo sel'-
khoz.lit-ry, 1960. 294 p. (MIRA 13:8)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Institut ekono-
miki AN SSSR (for Buyanov, Laptev, Semin, Suvorova).
(Collective farms)

EGOROV, Ivan Stepanovich, Geroy Sotsialisticheskogo Truda;
RAKITINA, Ya.D., red.; DEYeva, V.M., tekhn.red.

[Corn in livestock raising] Kukuruza i zhivotnovodstvo.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 126 p.

(MIRA 13:11)

(Corn as feed)

BELOUSOV, Yu.A.; KORCHANOV, A.T.; RUDINSKIY, Ye.Ye.; STEPNOVA, Ye.V.;
BANNIKOV, N.A., red.; ZAPIVAKHIN, A.I., red.; LAPIDUS, M.A.,
red.; RAKITINA, Ye.D., red.; TERESENCHENKO, N.I., red.; FREYDMAN,
S.M., red.; BALLOD, A.I., tekhn.red.

[Manual on rural subsidiary enterprises] Spravochnik po sel'skim
podсобnym predpriiatiiam. Moskva, Gos.izd-vo sel'khoz.lit-ry,
1960. 798 p. (MIRA 13:12)

(Manufactures) (Farm produce)

GLUKHOV, Zakhar Nikolayevich, Geroy Sotsialisticheskogo Truda ; LAPIDUS, M.A.,
red.; RAKITINA, Ye.D., red.; PROKOF'YEVA, L.N., tekhn. red.

[Personnel determines the success of an enterprise] Kadry reshajut us-pekh dela. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 166 p. (MIRA 14:8)

1. Sekretar' Mar'inenskogo rayonnogo komiteta Kommunisticheskoy partii Stalinskoy oblasti (for Glukhov)
(Mar'inka District--Communist Party of the Soviet Union--Party work)
(Collective farms--Officials and employees)

CHEREMUSHKIN, S.D.; KLOPOTOVSKIY, A.P.; KRYUCHKOV, V.G.; MARKOVA, M.V.; RA-KITINA, Y.E., red.; PROKOF'YEVA, L.N., tekhn. red.

[Economic valuation of land] Ekonomicheskaya otsenka zemli. By S.D. Cherenushkin i dr. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1961.
183 p. (MIRA 14:8)
(Farms--Valuation) (Moscow Province--Soils--Classification)

BETEREV, M.M.; BOL'SHOV, M.M.; ZAPIVAKHIN, A.I., red.; RAKITINA, Ye.D.,
red.; PROKOF'YEVA, L.N., tekhn. red.

[Handbook on safety measures in agriculture] Spravochnik po
okhrane truda v sel'slom khozia'stve. Moskva, Izd-vo sel'khoz.
lit-ry, zhurnalov i plakatov, 1961. 559 p. (MIRA 15:2)
(Agriculture--Safety measures)

BRAGINSKIY, Boris Iosifovich; RAKITINA, Ye.D., red.; MAKHOVA, N.N.,
tekhn. red.

[Labor productivity in agriculture; accounting and planning
methods] Proizvoditel'nost' truda v sel'skom khoziaistve; me-
todika ucheta i planirovaniia. Moskva, Sel'khozizdat, 1962.
430 p. (MIR: 15:9)

1. Nauchno-issledovatel'skiy ekonomicheskiy institut Gosudar-
stvennogo nauchno-ekonomicheskogo soveta Soveta Ministrov SSSR
(for Braginskiy).

(Agriculture—Labor productivity)

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(PORTAL HYPERTENSION) (KIDNEYS)

ACC NR: AP6021261

SOURCE CODE: UR/0128/66/000/003/0031/0032

AUTHOR: Chernov, V. M. (Engineer); Rakitina, Z. A. (Engineer)

ORG: none

TITLE: Solidification temperatures of the alloys used to produce permanent magnets

SOURCE: Liteynoye proizvodstvo, no. 3, 1966, 31-32

TOPIC TAGS: magnetic alloy, solid state, temperature dependence, thermoelectromotive force / YuND4 magnetic alloy, YuND8 magnetic alloy, YuND12 magnetic alloy, YuNDK15 magnetic alloy, YuNDKI8 magnetic alloy, YuNDK24 magnetic alloy, YuNDK24T2 magnetic alloy

ABSTRACT: These temperatures were investigated for the most widely used magnetic alloys YuND4, YuND8, YuND12, YuNDK15, YuNDKI8, YuNDK24 and YuNDK24T2, with the aid of specially calibrated (with respect to armco iron) thermocouples. These alloys were prepared of Ni nickel, AVO aluminum, Kl cobalt, copper, armco/iron, and titanium, in an induction furnace. The molten metal was poured from a graphite ladle into dry sand and graphite molds, after which a junction of a TPP-IV thermocouple with a portable PP-type potentiometer was

Card 1/3

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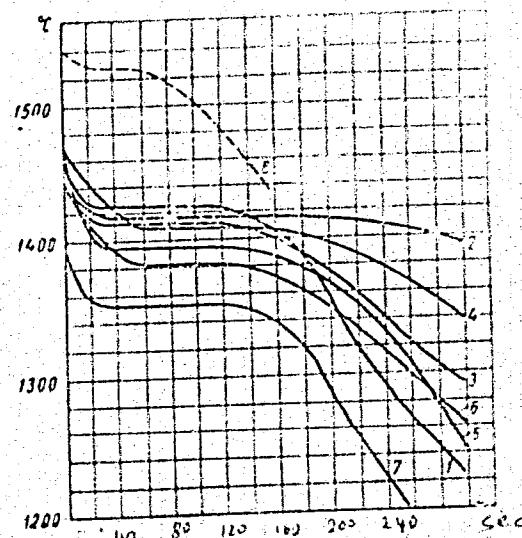


Fig. 1.

1 - YuNDK24; 2 - YuND4; 3 - YuNDK18, 4 - YuNDK15; 5 - YuNDK24T2;
6 - YuND8; 7 - YuND12; 8 - armco iron

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plunged to the depth of 60 mm into the molten metal in the mold. Thermo-e. m. f. was determined once every 10 sec and the temperature of the metal was then determined from the standard calibration table on making an allowance for the cold junction. The findings were used to plot curves of the solidification temperatures of the magnetic alloys: YuND4, 1417°C; YuND8, 1383°C; YuND12, 1354°C, YuNDK15, 1408°C; YuNDK18, 1412°C; YuNDK24, 1425°C; YuNDK24T2, 1395°C. Since the solidification temperature of armco iron is 1529°C and, according to its constitution diagram, for pure iron the solidification temperature is 1534°C, these measurements must be considered sufficiently accurate. Since the magnetic alloys investigated are of the multi-component type, their solidification curves should have included two horizontal segments corresponding to the liquidus and solidus lines, but the actually plotted curves (Fig. 1) have only one horizontal segment, which is characteristic of pure metals and eutectic alloys. Such a discrepancy can be explained, with respect to the Fe-Ni-Al alloys, by considering their constitution diagram: these alloys have a very narrow solidification range (or none at all for concentrations of 40-60% Fe). For the more complex alloys, e.g. Fe-Ni-Al-Co a constitution diagram still has not been worked out, so it remains to assume that for them too the solidification interval is either very narrow or non-existent. Orig. art. bgs: 2 figures.

JB CODE: 11, 20, 13/ SUBM DATE: none/ ORIG REF: 003/

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Caro
3/3

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"Desert Steppes of West Caspian Region," A. N. Rakitnikov, Res Inst for Geog, Moscow State U imeni Lomonosov

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This region is particularly important for animal husbandry. Nevertheless, the food supply is not sufficient and particularly water supply is lacking. These deficiencies are expected to be improved by vast projects of artificial irrigation.

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